

Add Document Header Add Date

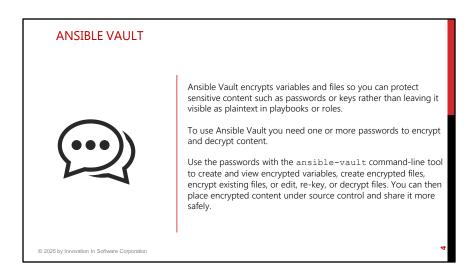
CLASS PAGE

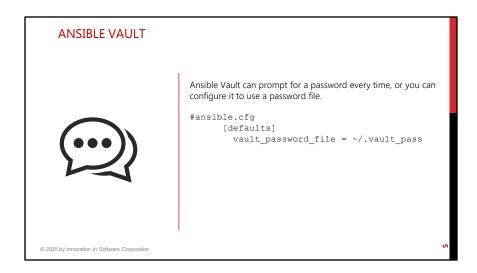
https://jruels.github.io/ansible-windows-best

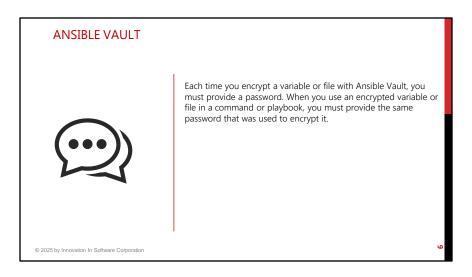


© 2025 by Innovation In Software Corporation









POP QUIZ: DISCUSSION

Things to consider:

- Do you want to encrypt all your content with the same password, or use different passwords for different needs?
- Where do you want to store your password(s)?





ANSIBLE VAULT



Small teams can use a single password for everything encrypted. Store the vault password securely in a file or secret manager.

If you have a large team or many sensitive values to manage it is recommended to use multiple passwords.

You can use different passwords for different users or different levels of access. Depending on your needs, you might want a different password for each encrypted file, for each directory, or for each environment.

© 2025 by Innovation In Software Corporation

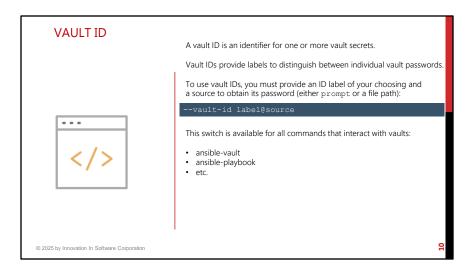
ANSIBLE VAULT

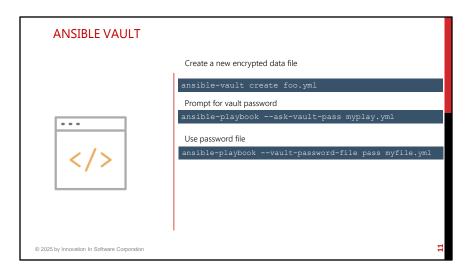


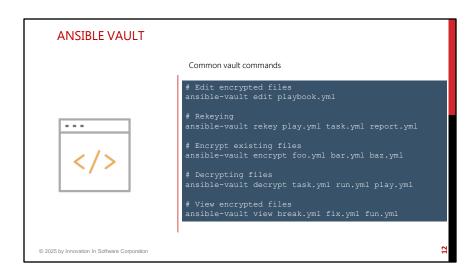
You might have a playbook that includes two vars files, one for the dev environment and one for the production environment, encrypted with two different passwords.

When you run the playbook, select the correct vault password for the environment you are targeting, using a vault ID.

© 2025 by Innovation In Software Corporation



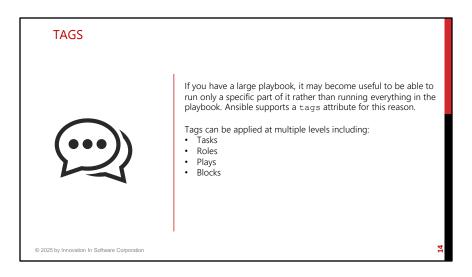


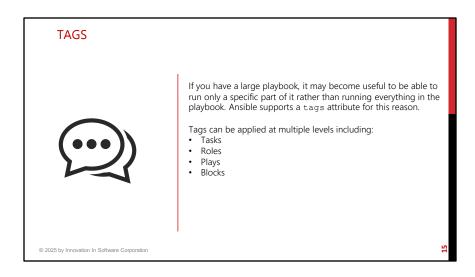


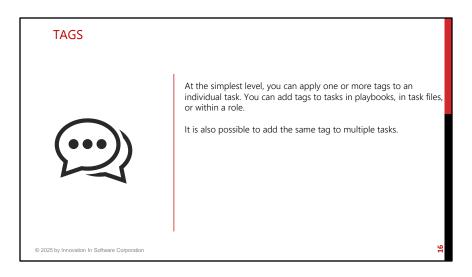
Should you wish to change your password on a vault-encrypted file or files, you can do so with the rekey command:

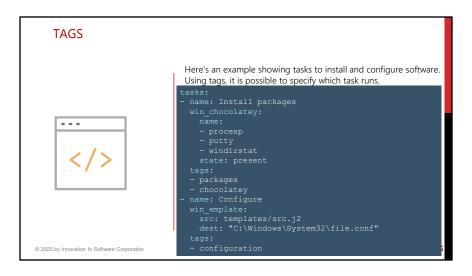
Add Document Header Add Date

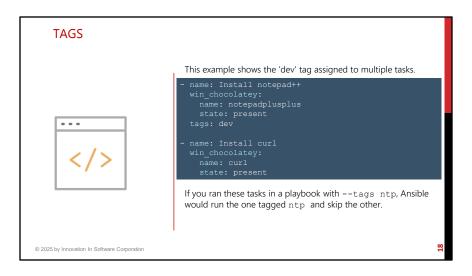












TAGS



Inheritance:

No one wants to add the same tag to multiple tasks. To avoid repeating code you can tag the play, block, or role. Ansible applies the tags down the dependency chain to all child tasks.

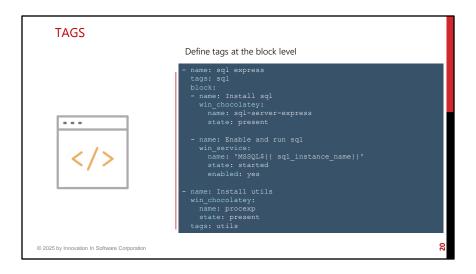
Blocks are useful for applying a tag to many, but not all, of the tasks in your play.

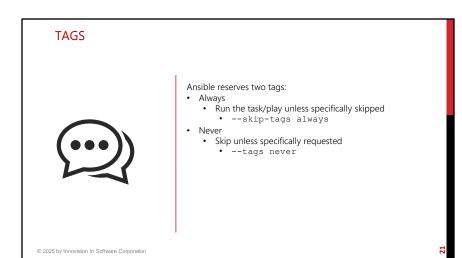
Plays are better suited if every task in the play should have the same tags.

Adding tags to roles allows you to run specific roles.

© 2025 by Innovation In Software Corporation

6









ANSIBLE COLLECTIONS



You can extend Ansible by adding custom modules or plugins. You can create them from scratch or copy existing ones for local use.

A simple way to share plugins and modules with your team or organization is by including them in a collection and publishing the collection on Ansible Galaxy.

© 2025 by Innovation In Software Corporation

24

ANSIBLE COLLECTIONS



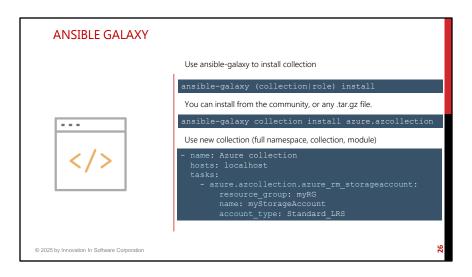
Modules:

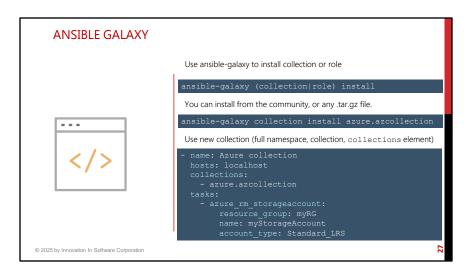
Modules: Modules are reusable, standalone scripts that can be used by the Ansible API, the ansible command, or the ansible—playbook command. Modules provide a defined interface. Each module accepts arguments and returns information to Ansible by printing a JSON string to stdout before exiting. Modules execute on the target system (usually that means on a remote system) in separate processes.

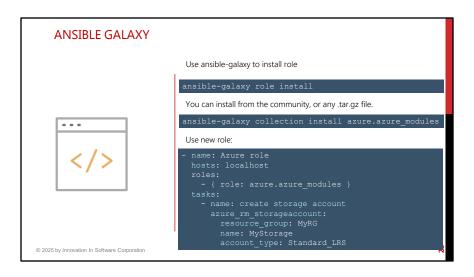
Plugins:

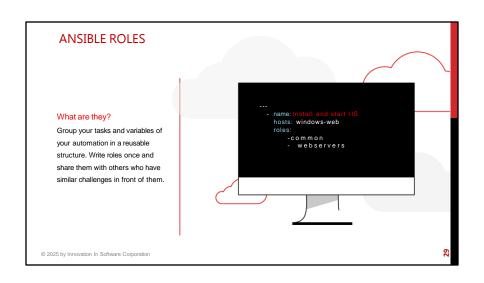
Plugins extend Ansible's core functionality and execute on the control node within the /usr/bin/ansible process. Plugins offer options and extensions for the core features of Ansible - transforming data, logging output, connecting to inventory, and more

© 2025 by Innovation In Software Corporation



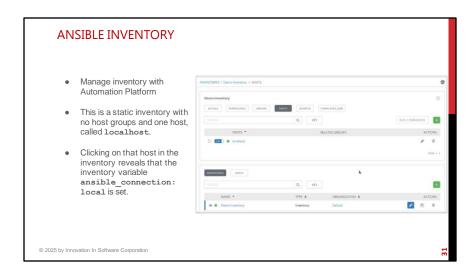


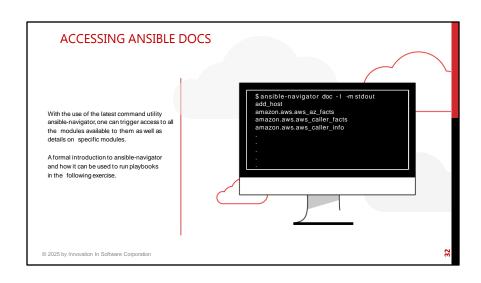


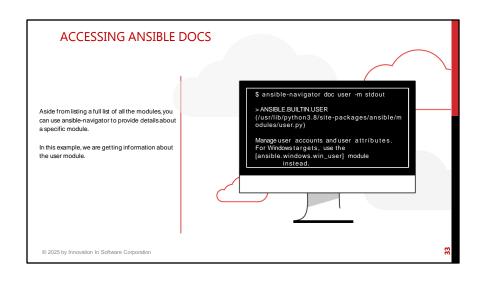


Add Document Header Add Date

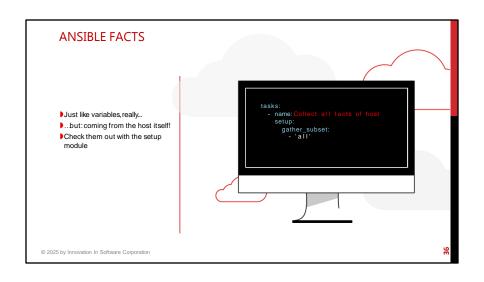


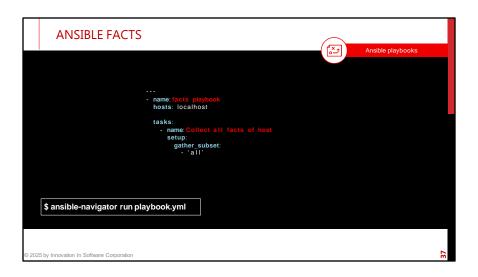


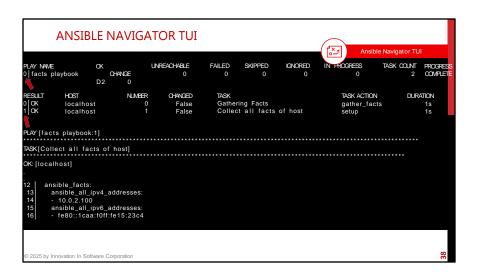


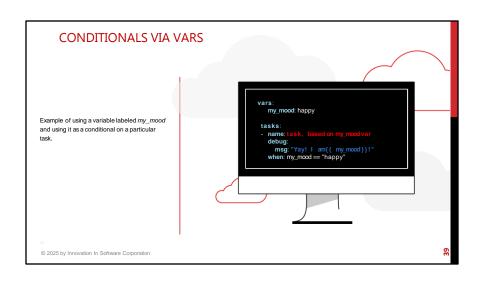




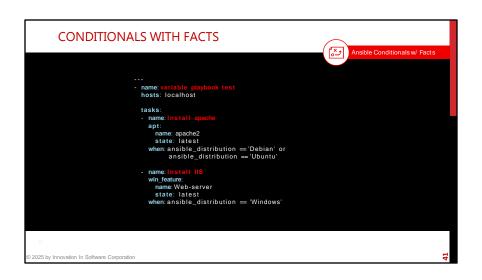




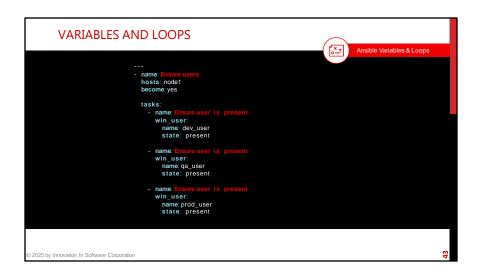


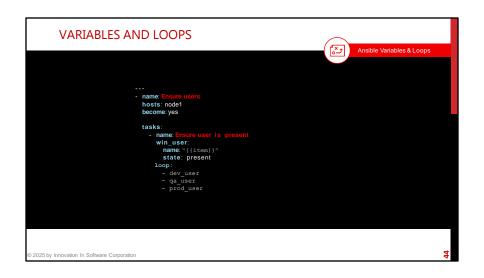


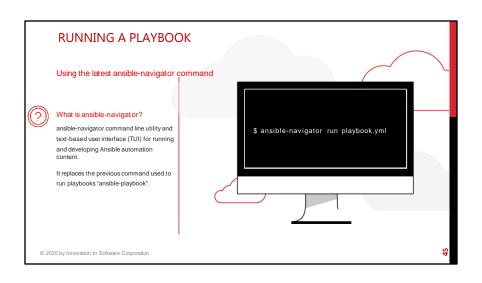


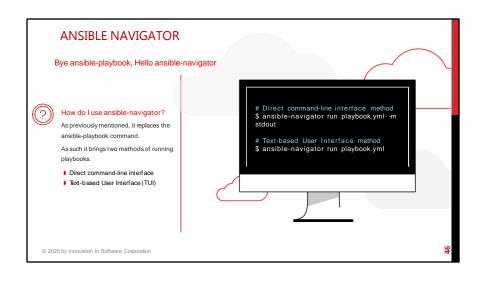


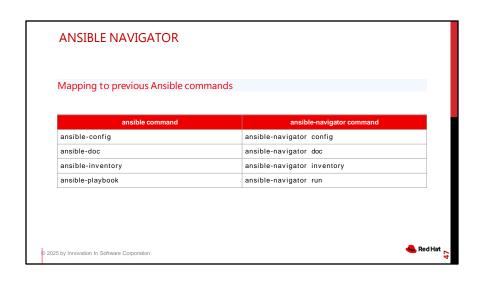


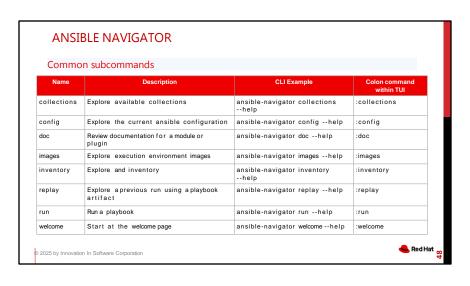




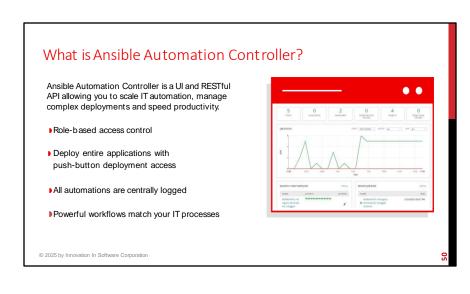


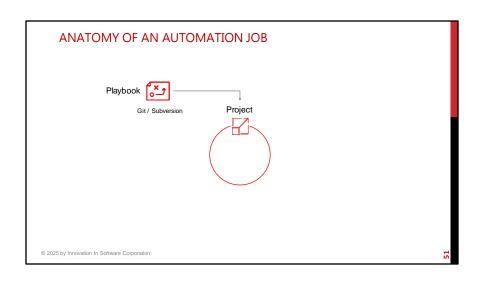


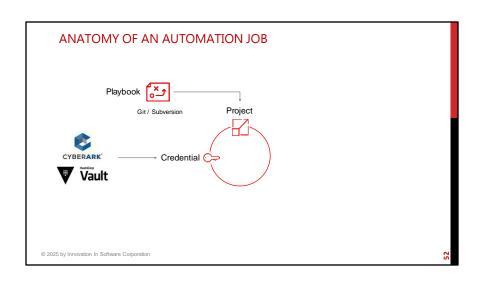


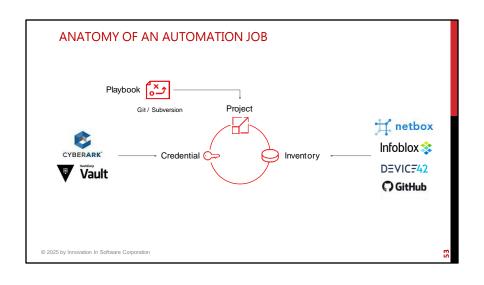


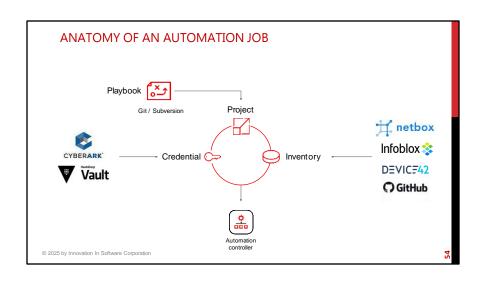


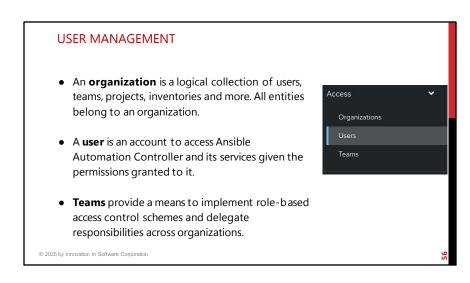


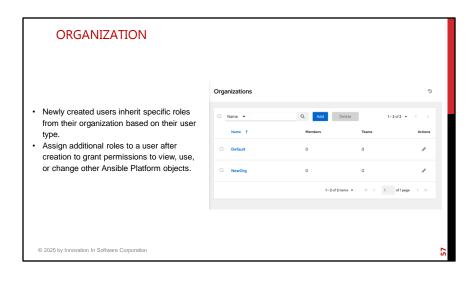




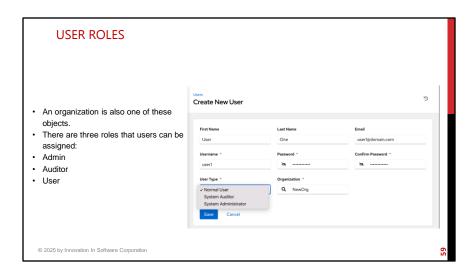




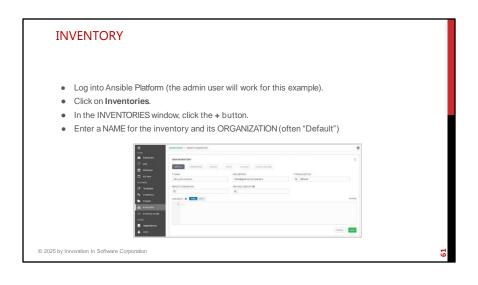


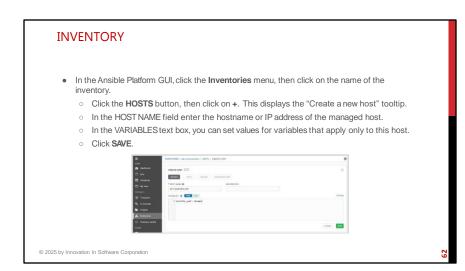








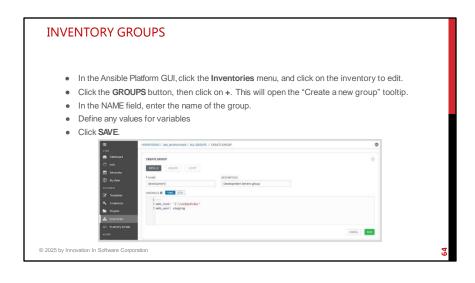




INVENTORY GROUPS

- Groups allow you to organize hosts into a set that can be managed together
- Hosts may be in multiple groups at the same time
 - o All hosts that are in a particular data center
 - o All hosts that have a particular purpose
 - Dev / Test / Prod hosts can be grouped
- Groups can be nested
 - The europe group might include a paris_dc group and a london_dc group
- This allows you to run playbooks on particular groups
- This allows you to set a variable to a specific value for all hosts in a group

© 2025 by Innovation In Software Corporation

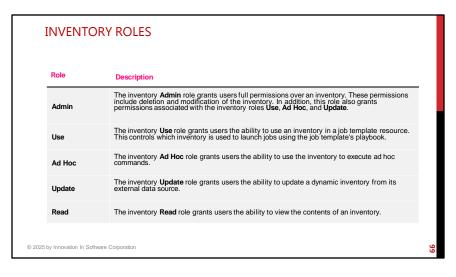


INVENTORY GROUPS

- In the Ansible Platform GUI, click the Inventories menu, and click on the inventory to edit.
- Click the **GROUPS** button, then click on the group to edit.
- Click the HOSTS button, then click on +. This will open the "Add a host" tooltip. Select "New Host".
- In the HOST NAME field, enter the hostname or IP address of the managed host to add.
- Define any values for variables that affect only that host (overriding any group variables).
- Click SAVE.

© 2025 by Innovation In Software Corporation

LC.



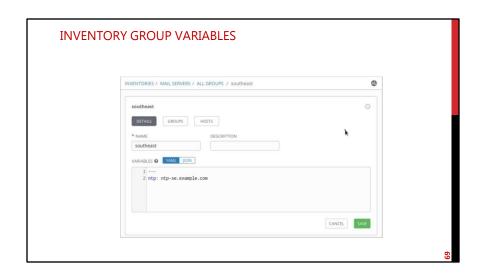
INVENTORY VARIABLES

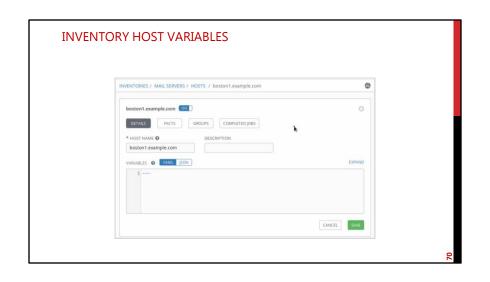
When you manage a static inventory in the Ansible Platform web UI, you may define inventory variables directly in the inventory objects.

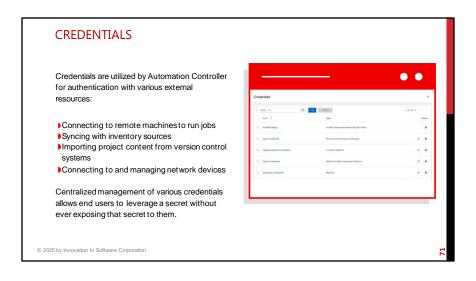
- Variables set in the inventory details affect all hosts in the inventory.
 Variables set in a group's details are the equivalent of group_vars.
 Variables set in a host's details are the equivalent of host_vars.

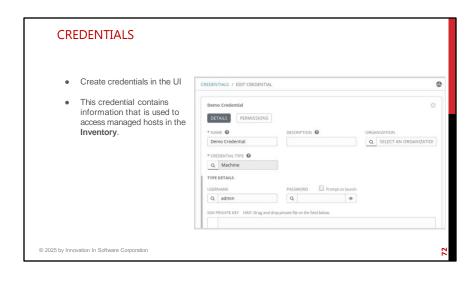
© 2025 by Innovation In Software Corporation











Add Document Header Add Date



ROLLING UPDATES

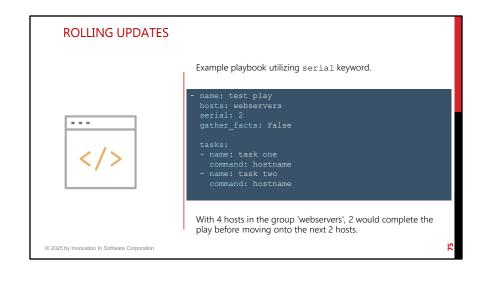


Batch size:

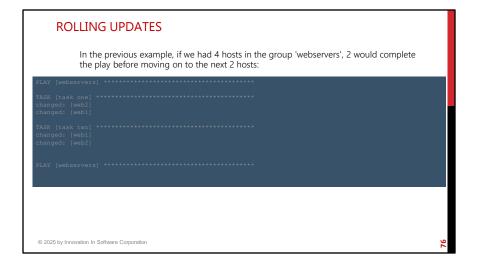
By default, Ansible will try to manage all the machines referenced in a play in parallel. For a rolling update use case, you can define how many hosts Ansible should manage at a single time by using the serial keyword:

© 2025 by Innovation In Software Corporation

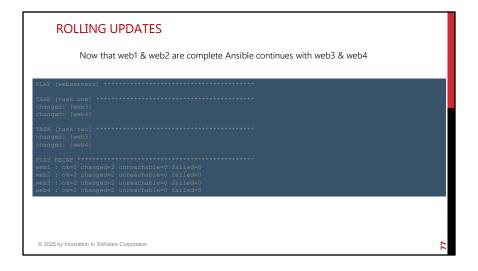
4

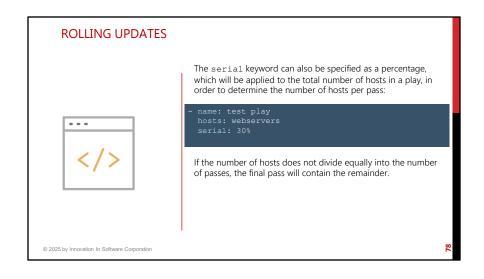


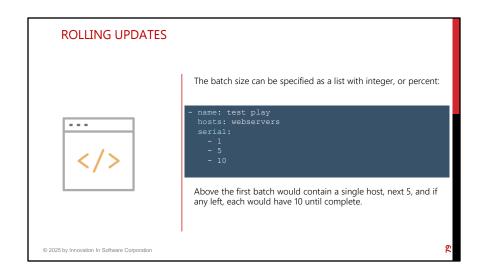
Add Document Header Add Date

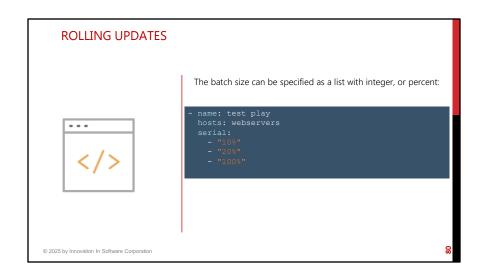


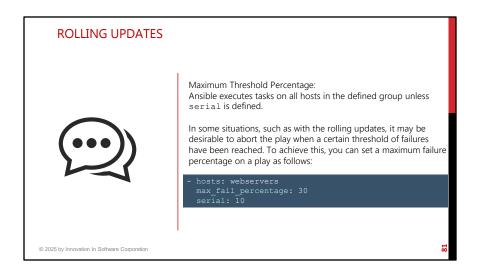
Add Document Header Add Date











In the above example, if more than 3 of the 10 servers in the group were to fail, the rest of the play would be aborted.